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Next 1 Page(s) In Document Denied

DISSERTATIONS FOR DEGREES IN SCIENCE AND ENGINEERING
DEFENDED AT USSR HIGHER EDUCATIONAL INSTITUTIONS (2/56)

Knizhnaya letopis'
[Book Register],
No 2, 1956, Moscow.
Pages 126-142.

PHYSICOMATHEMATICAL SCIENCES

For the Degree of Doctor in Sciences

- KURILEKH, D. G. -- "Investigation of the Nature of the Toughening of Iron and Its Solid Solutions." Acad Sci Ukrainian SSR. Inst of Physics. Kiev, 1955.
- MONIN, A. S. -- "Problems in the Theory of Atmospheric Diffusion." Acad Sci USSR. Geophysics Inst. Moscow, 1955.
- MOSSAKOVSKIY, V. I. -- "Some Spatial Contact Problems in the Theory of Elasticity." Acad Sci USSR. Inst of Mechanics. Moscow, 1955.

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- VEL'DRE, V. Ya. -- "Excitation of the Sodium Atom by Electron Impact." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Leningrad, 1955.
- KULIK, A. N. -- "Double-Contact Plates with Reinforced Edge." Min Higher Education Ukrainian SSR. L'vov State U imeni Ivan Franko. L'vov, 1955.
- NOVIKOV, L. V. -- "Autooscillation of Rotating Shafts." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov. Moscow, 1955.
- EYNASTO, Ya. E. -- "On the Kinematic Structure of the Principal Series." Tartu State U. Tartu, 1955.
- FREYMAN, G. A. -- "On the Presentation of Numbers in the Form of a Sum of an Infinite Number of Components." Min Higher Education USSR. Kazan' State U imeni V. I. Ul'yanov-Lenin. Kazan', 1955.

CHEMICAL SCIENCES

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- ANDREYEVA, I. V. -- "The Synthesis and Polymerization of Vinyl Derivatives of the Furane and Thiophene Series." Acad Sci USSR. Inst of High-Molecular Compounds. Leningrad, 1955.
- ANTONOV, V. K. -- "Synthetic Investigations in the Field of Gamma-(Indol-yl-3)-Butyric Acid and Its Derivatives." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendel-eyev. Moscow, 1955.



- ARNOL'D, T. I. -- "Investigation of the Process of Interaction of the Oxides of Nitrogen with Ozonized Oxygen and Attempts to Synthesize the Higher Oxides of Nitrogen." Acad Sci USSR. Inst of General and Inorganic Chemistry imeni N. S. Kurnakov. Moscow, 1955.
- BELYATSKAYA, O. N. -- "Investigation of Vulcanization in the Presence of Benzothiazol Sulfene Diethylamide as an Accelerator." Min Higher Education USSR. Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. Moscow, 1955.
- VARVAS, Yu. A. -- "Electrokinetic Properties of Thin Layers on the Surface of Phase Boundaries." Min Higher Education USSR. Ural Polytechnic Inst imeni S. M. Kirov. Sverdlovsk, 1955.
- GLUDINA, N. I. -- "A Photocolorimetric Method of Determining Silicon in Silicates and Organosilicon Compounds." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev, Chair of Analytical Chemistry. Moscow, 1955.
- GRABAK, F. -- "Investigation of the Reaction between Dimethyl Aniline and Benzol Peroxide in Solutions." Min Higher Education USSR. Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. Moscow, 1955.
- GRIGOR'YEVA, K. S. -- "The Synthesis of Hydrogen Peroxides of the 1,1-Diphenyl Ethane Series Using the Chromatographic Method of Separation." Min Higher Education Ukrainian SSR. L'vov State U imeni Ivan Franko. L'vov, 1955.
- ZHANALINOVA, A. N. -- "The Effect of the Solvent on the Kinetics of Hydrogenation of Unsaturated Compounds on a Nickel Catalyst." Acad Sci Kazakh SSR. Inst of Chemical Sciences. Kazakh State Pedagogical Inst for Women. Alma-Ata, 1955.
- ZYRYANOVA, T. A. -- "The Effect of Benzosulfodichloramide and Benzosulfodibromamide on Solutions of Piperylene and Isoprene in Methyl and Ethyl Alcohol." Min Higher Education USSR. Leningrad Order of Labor Red Banner Technological Inst imeni Leningrad Soviet. Leningrad, 1955.
- KOZINA, M. P. -- "The Heat of Combustion of Certain 5- and 6-Membered Heterocyclic Compounds." Moscow State U imeni M. V. Lomonosov. Chemistry Faculty. Moscow, 1955.
- LEVITSKAYA, K. V. -- "The Distribution of Carbon Disulfide in the Xanthogenesis of Alkali Cellulose and in the Ripening of Viscose; the Splitting off of Sulfur from Polysulfur Compounds in Viscose." Acad Sci USSR. Inst of High-Molecular Compounds. Leningrad, 1955.
- LINEVICH, L. I. -- "Obtaining from Opianic Acid Alkoxy-Substituted Ketones and Acids of the Isoquinoline Series and Certain of Their Derivatives." All-Union Sci Res Chemicopharmaceutical Inst imeni S. Ordzhonikidze. Moscow, 1955.
- NAZARENKO, M. V. -- "Investigation of the Essential Oil of the Fruits of Transcaucasian Libanotis." Min Food Products Industry. Glavparfumer [Main Perfumery]. All-Union Sci Res Inst of Synthetic and Natural Essential Oils. Leningrad, 1955.

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STAROVEROVA, N. V. -- Author's abstract of a dissertation presented toward the academic degree of Candidate in Chemical Sciences on "Investigation of the Naphthenic Acids." Min Higher Education USSR. Azerbaydzhan Order of Labor Red Banner Industrial Inst imeni Azizbekov. Baku, 1955.

UZNADZE, E. D. -- "The Basic Salt of Aluminum and Structure Formation in Suspensions of 'askangel'." Published by the Acad Sci Georgian SSR. Laboratory of Colloid Chemistry, Inst of Chemistry imeni P. G. Melikishvili, Acad Sci Georgian SSR; and Chair of Chemistry, Tbilisi Inst of Railroad Transport Engineers imeni Lenin. Tbilisi, 1955.

FINIKOV, V. G. -- "A Study of Isotope Exchange between Gaseous Oxygen and the Sulfates of Alkali Elements at Higher Temperature." Acad Sci USSR. Inst of Physical Chemistry. Moscow, 1955.

FRANKOVSKIY, Ch. S. -- "Synthesis and Investigation of Diamines of the Benzimidazol Series and Their Azo-Dye Derivatives." Min Higher Education USSR. Leningrad Order of Labor Red Banner Technological Inst imeni Leningrad Soviet. Laboratory of the Technology of Organic Dyestuffs imeni A. Ye. Poray-Koshits. Leningrad, 1955.

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ASEYEV, A. A. -- "Basic Features of the Paleography of the Region of the Central and Lower Oka in the Quaternary Period." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov. Moscow, 1955.

BULAVIN, V. I. -- "Basic Regions of Ferrous Metallurgy in the USA." Inst of Geography, Acad Sci USSR. Moscow, 1955.

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KAZENKINA, G. A. -- "The Lithology and Facies of Devonian Deposits in the Rybinsk Depression as Possible Collectors of Petroleum." Acad Sci USSR. Inst of Petroleum. Laboratory of Lithology. Moscow, 1955.

LYASHENKO, G. P. -- "Devonian Tentaculites, Novacios, and Styliolines of the Central Portion of the Russian Platform." Acad Sci USSR. Inst of Geological Sciences (GIN). Moscow, 1955.

MAKSIMOV, S. N. -- "The Effect of Changes in Moisture Content on the Compressibility of Loess Soils." Moscow Geological Prospecting Inst imeni S. Ordzhonikidze. Moscow, 1955.

MEL'NIKOVA, K. P. -- "The Development of Soviet Soil Science in Connection with Railroad and Hydraulic-Engineering Construction before the Great Patriotic War (1917-1941)." Moscow State U imeni M. V. Lomonosov, Geology Faculty. Chair of the History of Geological Science. Moscow, 1955.

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- ALEKSEYEVA, L. I. -- "Late Neogenic Mastodons of the Region Covered by the USSR." Acad Sci USSR. Paleontological Inst. Moscow, 1955.
- VOLKOVA, L. P. -- "Microorganisms Destroying the Humic Acid of Soil." Acad Sci USSR. Inst of Microbiology. Moscow, 1955.
- YERSHOV, M. F. -- "Investigation of the Pollen-Retaining Properties of Leaves of Certain Forest Plants." Acad Sci USSR. Botanical Inst imeni V. L. Komarov. Leningrad, 1955.
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- KUZNETSOVA, E. G. -- "The Rate of Formation of Lactic Acid During the Development of Bacterium Delbrückii and the Use of Biological Material for Repeated Fermentation." Inst of Microbiology, Acad Sci USSR. Moscow, 1955.
- MIKHEICHEV, V. Ya. -- "Comparative-Anatomical Investigations of the Intestine of Cultivated Fur-Bearing Animals." Min Higher Education USSR. Moscow Veterinary Academy. Moscow, 1955.
- MUKHAMEDOVA, E. D. -- "Aspects of the Peripheral Blood of Gray Karakul Lambs." Min Higher Education USSR. Alma-Ata Zooveterinary Institute. Alma-Ata-Samarkand, 1955.
- POKROVSKAYA, N. V. -- "The Effect of Carbon Dioxide on the Reproduction of Yeast and the Fermentation Caused by It." Inst of Microbiology. Acad Sci USSR. Moscow, 1955.
- SOKOLOV, V. A. -- "The Characteristics of the Internal Analysor of Fish." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Chair of the Physiology of Higher Nervous Activity. Leningrad, 1955.
- STRAZHEVSKAYA, N. B. -- "Investigation of Certain Primary Biological Changes in Plants under the Influence of Ionizing Radiations." Acad Sci USSR. Inst of Biochemistry imeni A. N. Bakh. Acad Sci USSR. Inst of Biological Physics. Moscow, 1955.
- SUBBOTINA, N. V. -- "The Effect of Withering on the Oxidation-Reduction Regime and Metabolism of Plants." Acad Sci USSR. Inst of Plant Physiology imeni K. A. Timiryazev. Moscow, 1955.
- UL'YANOVA, O. M. -- "The Ecology of Nitrosomonas." Inst of Microbiology. Acad Sci USSR. Moscow, 1955.
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TECHNICAL SCIENCES

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KULESHOV, V. N. -- "Mutual Electromagnetic Influences between Circuits in Cable Communications and Methods of Limiting Them." State Publishing House for Literature on Problems of Communications and Radio. Min Communications USSR. Moscow Electrical Engineering Inst of Communications. Moscow, 1955.

MALOZEMOV, N. A. -- "The Problem of Establishing Standards for Permissible Wear on Locomotive Parts." Min Railways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers imeni I. V. Stalin. Moscow, 1955.

CHUKAYEV, D. S. -- "Investigation of the Problems of Mechanization and Electrification of the Communal-Housing Services to the Population." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955.

SHISHKOV, P. F. -- "Non-Equilibrated Ore-Raising Equipment for Deep Mines." Min Higher Education USSR. Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst. Leningrad-Dnepropetrovsk, 1955.

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ABEL', V. V. -- "Investigation of the Stressed State of the Heads of Automobile Connecting Rods under Tension and Compression." Min Higher Education USSR. Moscow Automotive Mechanics Inst. Chair of "Strength of Materials". Moscow, 1955.

ABRAMOV, S. K. -- "Radial Bend Elasticity in Presses." Min Higher Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin. Minsk, 1955.

AVAKOV, R. A. -- "Investigation of Systems of Direct Seeking of Stepped Automatic Telephone Stations." Min Communications USSR. Leningrad Electrical Engineering Inst of Communications imeni Professor M. A. Bonch-Bruyevich. Leningrad, 1955.

ANTONOVA, A. I. -- "Investigation of Processes of Tying up and the Qualities of Stockings Made of Tied Interwoven Material." Min Higher Education USSR. Moscow Textile Inst. Moscow, 1955.

ARKHANGEL'SKIY, Ye. V. -- "Investigation of Some Problems of Shunting Work." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport. Moscow, 1955.

ASTAF'YEV, N. N. -- "Raising the Technical-Economic Indexes of Rural Electrical Networks." Min Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Chair of "Production and Distribution of Electric Power in Agriculture." Moscow, 1955.



- AFANAS'YEV, A. N. -- "The Effect of Fluorides on the Course of the Reaction of Silicate- and Glass-Formation in Four-Component Batch." Min Construction Materials Industry USSR. All-Union Sci Res Inst of Glass. Moscow, 1955.
- BELOUSOV, A. I. -- "Heat Evolution and Deformation of Metals in Cutting." Min Higher Education USSR. Moscow Order of Lenin Aviation Inst imeni S. Ordzhonikidze. Moscow, 1955.
- BERGER, Ye. Ya. -- "Investigation of Designs of the Span Structures for Prefabricated Reinforced-Concrete Medium-Span Bridges for Automobile Roads." Min Higher Education USSR. Kiev Construction-Engineering Inst. Kiev, 1954.
- BERDUS, V. V. -- "Hydraulic Pressure Transport through Large-Diameter Pipe." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955.
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- BURTSEV, O. N. -- "Investigation of Processes of Gas Exchange in a Two-Stroke Engine with Sleeve Gas Distribution." Min Higher Education USSR. Moscow Order of Lenin and Order of Labor Red Banner Higher Technical School imeni Bauman. Moscow, 1955.
- BURTSEV, P. N. -- "Experimental Investigation of a Hydrometric Vane." Main Administration of the Hydrometeorological Service, Council of Ministers USSR. State Order of Labor Red Banner Hydrological Inst. Leningrad, 1955.
- VEDERNIKOV, V. I. -- "Analysis of the Operation of Combines for Removing Coal from Inclined Seams up to 0.8 Meter Thick." Min Coal Industry USSR. Academy of the Coal Industry. Moscow, 1955.
- VINOGRADOVA, L. P. -- "Basic Factors Causing Spontaneous Combustion of Coal in the Mines of the Prokop'yevsk-Kiselevsk Region of the Kuznetsk Basin." Acad Sci USSR. Inst of Mining. Moscow, 1955.
- VINOKUR, Ya. G. -- "An Experiment in the Use of Radioactive Isotopes for Investigating Processes within Boilers." Acad Sci USSR. Power Engineering Inst imeni G. M. Krzhizhanovskiy. Moscow, 1955.
- VISHNEVETSKIY, V. M. -- "Basic Conditions for the Organization of Permanent Freight Trains." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport. Moscow, 1955.
- VOLKOV, P. Ya. -- "Investigation of the Effect of Gaseous HCl on Cement Solutions in a Moist Medium." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. Moscow, 1955.
- VOLOSEVICH, G. N. -- "A Study of the Structure of Corundum Ceramics and Its Connection with Certain Physicomechanical Properties." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. Moscow, 1955.

VOROB'YEVA, M. A. -- "Conditions for the Stable Existence of Cinder Compounds at Temperatures below Sintering Temperature." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev. Moscow, 1955.

VORONTSOV, L. N. -- "Active Control of the Dimensions of Watch Parts." Min Higher Education USSR. Moscow Order of Lenin and Order of Labor Red Banner Higher Technical School imeni Bauman. Moscow, 1955.

VOSKRESENSKIY, V. A. -- "History of the Development of Axonometric Designs in Russia and the USSR." Min Higher Education USSR. Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze. Moscow, 1955.

VUTSEL', V. I. -- "Investigation of the Phenomenon of 'heaping' of the Support Walls of Hydraulic-Engineering Structures over Their Fillings." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955.

GERASIMYUK, A. V. -- "Calculation of Arch Bridges for Gas Lines." Min Higher Education USSR. Kiev Construction Engineering Inst. Chair of Construction Mechanics. Kiev, 1954.

GOLOVA, R. S. -- "The Preparation of the Surface of Offset Plates in Making up Press Forms." Min Higher Education USSR. Moscow Polygraphic Inst. Moscow, 1955.

GORDIYEVSKIY, L. A. -- "Investigation of the Process of Extract Distillation by the Example of Separating Azeotropic Systems." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev. Moscow, 1955.

GROMOV, S. A. -- "Investigation of the Possibility of Determining the Temperature of the Rotor Windings of Electrical Machinery in Diesel Locomotives in Terms of the Temperature of the Windings of Supplementary Poles." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport. Moscow, 1955.

DARYUSIN, A. P. -- "The Enrichment and Production of Ethylene from the Waste Fraction of Coking Gas for the Production of Ethyl Benzol." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev. Moscow, 1955.

DIDKOVSKAYA, L. M. -- "Investigation of Magnetic Amplifiers of Even Harmonics as an Element in Automatic Equipment." Min Higher Education Ukrainian SSR. Kiev Order of Lenin Polytechnic Inst, Chair of Automatics and Telemechanics. Kiev, 1955.

DODONOV, B. P. -- "Investigation of the Stability of Cylindrical Joints." Min Higher Education USSR. Moscow Automobile and Road Inst imeni V. M. Molotov. Moscow, 1955.

DUDKIN, L. D. -- "Investigation of the Thermoelectric Properties of Cobalt Antimonides." Inst of Metallurgy imeni A. A. Baykov, Acad Sci USSR. Moscow, 1955.

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ZAMERKHANOV, A. -- "Investigation of Systems of Slowing Down Mine Hoisting Machinery." Min Higher Education USSR. Sverdlovsk Mining Inst imeni V. V. Vakhrushev. Sverdlovsk, 1955.

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IL'IN, A. V. -- "Investigation of the Effect of the Method of Mixture Formation on the Operation of a Four-Stroke Automobile Gas Engine." Min Higher Education USSR. Saratov Automobile and Road Inst imeni V. M. Molotov. Saratov, 1955.

KAN'KOVSKAYA, Ye. N. -- "Synthesis of Cellulose Acetobutyrate and Its Mixture with Condensation and Polymerization Tars." Min Higher Education USSR. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev. Moscow, 1955.

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LIBERG, L. A. -- "Investigation of Three-Dimensional Lever Mechanisms by the Method of Orthogonal Projection (Determination of Positions, Trajectories, Individual Points and Lengths of Elements)." Min Higher Education USSR. Leningrad Order of Labor Red Banner Inst imeni Leningrad Soviet. Chair of Descriptive Geometry and Graphics. Leningrad, 1955.

LITVINENKO, Ye. A. -- "The Length of Lava in Terms of the Ventilation Factor in Coal Mines with High Gas Concentrations." Min Higher Education Ukrainian SSR. Khar'kov Mining Inst. Khar'kov, 1955.



- LUBOCHKOV, Ye. A. -- "Designing Reverse Filters for Hydraulic Engineering Structures." Min Electric Power Stations. All-Union Sci Res Inst of Hydraulic Engineering imeni B. Ye. Vedeneyev. Leningrad, 1955.
- LUK'YANOV, S. V. -- "Optimum Parameters for the Magnetic Circuits of Electrical Machinery with Permanent Magnets." Min Higher Education Ukrainian SSR. L'vov Polytechnic Inst. L'vov, 1955.
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- MAKAROV, R. A. -- "The Method of Experimental Investigation of Dynamic Processes in the Basic Parts of Excavators." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955.
- MAKEYEV, I. F. -- "Maintaining Constant Tension as a Function of the Electromagnetic Power of a Reeler Motor." Min Higher Education USSR. Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov. Moscow, 1955.
- MAKSIMOVA, V. I. -- "Determination of Optimum Parameters of a Fan-Shaped System of Processing." Min Higher Education USSR. Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin. Chair of the Development of Ore and Placer Deposits. Ordzhonikidze, 1955.
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- MATVEYEV, V. M. -- "Investigation of Methods of Changing and Controlling Certain Basic Geometric Dimensions of Curved Ship Tubing." Min Shipbuilding Industry USSR. Central Sci Res Inst. Moscow, 1955.
- MYL'NIKOVA, I. Ye. -- "Investigation of Solid Solutions (Ba, Pb) (Ti, Sn) O₂ with Seignette-Electric Properties." Acad Sci USSR. Inst of the Chemistry of Silicates. Leningrad, 1955.
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- RODIONOV, L. Ye. -- "Determination of the Angle of the Working Slope of an Open-Pit Coal Mine." Min Higher Education USSR. Moscow Mining Inst imeni I. V. Stalin. Chair of Mine Surveying. Moscow, 1955.
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- RUSHCHINSKIY, V. M. -- "Investigation of the System of Automatic Regulation of the Type 67-SP Continuously Operating Coil Boiler." Acad Sci USSR. Inst of Automatics and Telemechanics. Moscow, 1955.
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- SITKIN, B. S. -- "Investigation of the Problem of Increasing the Effectiveness of Wood-Processing Operations within Construction Organizations (The Ministries of Construction Enterprises and the Metallurgical and Chemical Industries)." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955.
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